

Daily GLOWBUGS

Digest: V1 #113

via AB4EL Web Digests @ SunSITE

Purpose: building and operating vacuum tube-based QRP rigs

[AB4EL Ham Radio Homepage @ SunSITE](#)

%%%% GlowBugs %%%%% GlowBugs %%%%% GlowBugs %%%%% GlowBugs %%%%%

Subject: glowbugs V1 #113

glowbugs

Tuesday, September 16 1997

Volume 01 : Number 113

Date: Mon, 15 Sep 1997 07:55:54 -0400 (EDT)

From: EWoodman@aol.com

Subject: 1650Kc IF Can

I came across a neat little 3 tube superhet in my 1956 Radio Handbook that I'm thinking about building. I have everything in the junk box except one item. Where can you find a 1650Kc if transformer? I've pulled lots of 455's and some 10.7's in the past but no 1650's that I can remember. Sometime in the past I lost my box full of IF transformers so I can't check anyway. Can anyone point me in the right direction?

Tnx Eric KALYRV

Date: Mon, 15 Sep 1997 09:16:37 -0700 (MST)

From: Jeff Duntemann <jeffd@coriolis.com>

Subject: Re: 1650Kc IF Can

Eric--

I did a lot of dredging looking for exactly this, and came up empty; this in fact led to a discussion we had here on the list about creating your own IF transformers.

One of the possibilities is to create a crystal-based filter on your own using microprocessor crystals in that same general vicinity. 1.8432 Mhz crystals are very common, with the downside that it puts your IF inside 160. I've seen 1.6 Mhz can crystals, but not in recent catalogs. You can create an extremely sharp IF this way, bang-on for CW work. Several QST articles have been published on creating crystal filters, tho mostly for sideband elimination. If all you want is a good sharp IF, I think two crystals is more than enough. If you can spare the bucks you can just

order them, but it would be great to find a source of cheap surplus crystals from which IF filters could be made.

If you DO find a source of 1650kc cans, I'd love to get a couple myself.

- --73--

- --Jeff Duntemann KG7JF
Scottsdale, Arizona

At 07:55 AM 9/15/97 -0400, EWoodman@aol.com wrote:

>I came across a neat little 3 tube superhet in my 1956 Radio Handbook that
>I'm thinking about building. I have everything in the junk box except one
>item. Where can you find a 1650Kc if transformer? I've pulled lots of 455's
>and some 10.7's in the past but no 1650's that I can remember. Sometime in
>the past I lost my box full of IF transformers so I can't check anyway. Can
>anyone point me in the right direction?

>
>Tnx Eric KALYRV
>
>
>
>

Date: Tue, 16 Sep 1997 12:20:57 +1000
From: Murray Kelly <mkelly@powerup.com.au>
Subject: Re: 1650Kc IF Can

Would oscillator coils and/or antenna coils work? Add 455 to the top end of the BC band (1600 KHzes) and it is well above. Either tune with a smaller cap or screw out the slug.

Taps might be the problem, unless you tap in capacitatively.

Jeff Duntemann wrote:

>
> Eric--
>
> I did a lot of dredging looking for exactly this, and came up empty; this
> in fact led to a discussion we had here on the list about creating your own
> IF transformers.

* Murray Kelly vk4aok mkelly@powerup.com.au *
* 29 Molonga Ter. / Graceville/ QLD. 4075/ Australia *
* ph/fax Intl+ 61 7 3379 3307 *

Date: Tue, 16 Sep 1997 10:29:02 EDT
From: kmlh@juno.com (kmlh @ juno.com)
Subject: Re: 1650Kc IF Can

On Tue, 16 Sep 1997 12:20:57 +1000 Murray Kelly <mkelly@powerup.com.au>

writes:

>Would oscillator coils and/or antenna coils work? Add 455 to the
>top end of the BC band (1600 KHzes) and it is well above.
>Either tune with a smaller cap or screw out the slug.
>
>Taps might be the problem, unless you tap in capacitatively.
>

J.W. Miller produced a few IF xfmrs that would work.

The 12-W1 is a 1400-1600KHz input or interstage and the 12-W2 is a half wave output xfmr. Either one could work at 1650KHz if you changed the internal caps.

The 1732 is listed as a 1650KHz IF for CB radios.

The 913-W1 is a 1500KHz input and interstage and the 913-W4 is the output, again they can be modified for 1650KHz.

The above are out of production but still show up at fleamarkets, etc.

Another option is to use a toroid xfmr and miniature Arco style trimmer caps. The formulas can be found in various handbooks and QRP manuals.

GL....Carl KM1H

End of glowbugs V1 #113

%%%% GlowBugs %%%%% GlowBugs %%%%% GlowBugs %%%%% GlowBugs %%%%%

[AB4EL Ham Radio Homepage @ SunSITE](#)

Created by **Steve Modena, AB4EL**
Comments and suggestions to **modena@SunSITE.unc.edu**
